

IN THE CLAIMS:

1. (canceled)
2. (currently amended) The ~~catalyst member~~ method of claim 36 wherein the anchor layer is deposited by electric arc spraying a metal feedstock selected from the group consisting of nickel, Ni/Al, Ni/Cr, Ni/Cr/Al/Y, Co/Cr, Co/Cr/Al/Y, Co/Ni/Cr/Al/Y, Fe/Al, Fe/Cr, Fe/Cr/Al, Fe/Cr/Al/Y, Fe/Ni/Al, Fe/Ni/Cr, 300 series stainless steels, 400 series stainless steels, and mixtures of two or more thereof.
3. (currently amended) The ~~catalyst member~~ method of claim 2 wherein the anchor layer comprises nickel and aluminum.
4. (currently amended) The ~~catalyst member~~ method of claim 3 wherein the aluminum comprises from about 3 to 10 percent of the combined weights of nickel and aluminum in the anchor layer.
5. (currently amended) The ~~catalyst member~~ method of claim 3 wherein the aluminum comprises from about 4 to 6 percent aluminum of the combined weights of nickel and aluminum in the anchor layer.
6. (currently amended) The ~~catalyst member~~ method of claim 36 wherein the catalytic material is deposited on the anchor layer and comprises a refractory metal oxide support on which one or more catalytic metal components are dispersed.
7. (currently amended) The ~~catalyst member~~ method of claim 36 comprising a substrate selected from the group consisting of metal substrates and ceramic substrates.
8. (currently amended) The method of An exhaust treatment apparatus comprising the catalyst member of claim 36, claim 3 or claim 4 wherein the catalyst member is connected in the exhaust flow path of an internal combustion engine to provide an

exhaust gas treatment apparatus.

9. (currently amended) The apparatus method of claim 8 wherein the metal substrate comprises the interior surface of a conduit through which the exhaust of an internal combustion engine is flowed prior to discharge of the exhaust.

10. (currently amended) The apparatus method of claim 8 wherein the carrier substrate comprises a metal substrate.

11. (currently amended) The apparatus method of claim 8 wherein the carrier substrate comprises a ceramic substrate.

12. – 19. (canceled)

20. (currently amended) The ~~catalyst member~~ method of claim 46 wherein the at least two substrate regions of different substrate densities have thereon different effective loadings of the catalytic material.

21. (currently amended) The ~~catalyst member~~ method of claim 36, 46 or claim 20 wherein the substrate is selected from the group consisting of foamed metal, wire mesh and corrugated foil honeycomb.

22. – 35. (canceled)

36. (previously presented) A method for treating the exhaust stream from an engine, comprising flowing the exhaust stream into contact with a catalyst member comprising:

 a carrier substrate having an anchor layer disposed thereon by electric arc spraying; and
 catalytic material disposed on the carrier substrate.

37. (currently amended) ~~In a motorcycle comprising an engine and an exhaust treatment apparatus, the improvement comprising that the exhaust treatment apparatus comprises a catalyst member A method according to any one of claims 36, 46 or 20, wherein the catalyst member is part of a motorcycle exhaust treatment apparatus.~~

38. (currently amended) ~~A utility engine comprising an exhaust apparatus comprising a catalysts member A method according to any one of claims 36 or 46, wherein the catalyst member is part of a utility engine exhaust apparatus.~~

39. (currently amended) ~~In a lawn mower comprising an engine and an exhaust treatment apparatus, the improvement comprising that the engine comprises the utility engine The method of claim 38, wherein the utility engine is part of a lawn mower.~~

40. – 45. (canceled)

46. (currently amended) A method according to claim 36, wherein the for treating the exhaust stream from an engine, comprising flowing the exhaust stream into contact with a catalyst member comprising:
a the carrier substrate comprising comprises at least two regions of different substrate densities disposed for fluid flow from one region to the other; and
a the catalytic material is deposited on the at least two substrate regions of different surface area densities.